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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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1. *Chlorophyll a* (Chl *a*) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl *a* is located in the thylakoid membranes of chloroplasts.

2. *Chlorophyll b* (Chl *b*) is an accessory pigment that absorbs light energy in the blue and red regions of the visible spectrum. It is a green pigment that transfers energy to Chl *a*. Chl *b* is located in the thylakoid membranes of chloroplasts.

3. *Carotenoids* are accessory pigments that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the yellow, orange, and red colors seen in autumn foliage. Carotenoids are located in the thylakoid membranes of chloroplasts.

4. *Xanthophylls* are a type of carotenoid that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the yellow colors seen in autumn foliage. Xanthophylls are located in the thylakoid membranes of chloroplasts.

5. *Anthocyanins* are water-soluble pigments that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the red, purple, and blue colors seen in autumn foliage. Anthocyanins are located in the vacuoles of plant cells.

6. *Flavonoids* are a group of pigments that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the yellow, orange, and red colors seen in autumn foliage. Flavonoids are located in the vacuoles of plant cells.

7. *Anthoxanthins* are a type of flavonoid that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the white and yellow colors seen in autumn foliage. Anthoxanthins are located in the vacuoles of plant cells.

8. *Anthocyanins* are a type of flavonoid that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the red, purple, and blue colors seen in autumn foliage. Anthocyanins are located in the vacuoles of plant cells.

9. *Anthocyanins* are a type of flavonoid that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the red, purple, and blue colors seen in autumn foliage. Anthocyanins are located in the vacuoles of plant cells.

10. *Anthocyanins* are a type of flavonoid that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the red, purple, and blue colors seen in autumn foliage. Anthocyanins are located in the vacuoles of plant cells.